**Hypothesis:**

If population of a county is related to the percent of people enrolled in Medicare Advantage, then an individual that lives in a smaller populated county is more likely to enroll in Medicare Advantage.

**Null Hypothesis:**

If population of a county is not related to the percent of people enrolled in Medicare Advantage, then an individual that lives in a smaller populated county is not any more likely to enroll In Medicare Advantage than an individual in a larger populated county.

An independent samples t-test was conducted to compare Medicare Advantage enrollment as a percent of the population in the most populous counties and least populous counties.

There was a significant difference in the percent Medicare Advantage in the most populous counties when compared to the least populous counties; tstatistic=9.483498664933572, pvalue=9.238829627876864e-21.

These results suggest that living in a small county does make a person more likely to enroll in Medicare Advantage. Specifically, our results suggest small counties have a larger percent of the population enrolled in Medicare Advantage and rejects the Null Hypothesis.